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APPLICATION N	O. I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,758		09/04/2001	Vadim Y. Banine	P 282980 P-0202.011-US	8495
909	7590	02/08/2005		EXAMINER	
PILLSBU P.O. BOX		ΓHROP, LLP	NGUYEN, LAM S		
-	I 10300 I, VA 221	02		ART UNIT	PAPER NUMBER
	,			2853	

DATE MAILED: 02/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/943,758	BANINE ET AL.			
Office Action Summary	Examiner	Art Unit			
	LAM S NGUYEN	2853			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period ways to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
 1) Responsive to communication(s) filed on 26 O 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-13 and 17 is/are allowed. 6) ☐ Claim(s) 14 and 16 is/are rejected. 7) ☐ Claim(s) 15 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 04 September 2001 is/s	vn from consideration. r election requirement. r.	ted to by the Examiner.			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is ob	ected to. See 37 CFR 1.121(d).			
	difficient from the discourse since	7.00.07.07.07.07.0			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/942,953. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/26/2004. S. Palent and Trademark Office	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 10/26/2004 has been entered.

The indicated allowability of claims 14 and 16 is withdrawn in view of the newly discovered reference(s) to Klebanoff et al. (US 6533952) submitted by the applicants.

Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 14, 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Klebanoff et al. (US 6533952).

Klebanoff et al. discloses a method of manufacturing a device using a lithographic projection apparatus comprising:

projecting a patterned beam of radiation onto a target portion of a layer of radiation-sensitive material on a substrate (column 1, lines 30-40: The radiation is applied on the surface of the workpiece that is coated with a radiation-sensitive substance); and

supplying a gaseous alcohol (Abstract: A hydrocarbon gas is introduced into the environment of the surface; Column 4, lines 60-65: Hydrocarbon contains such polar functional groups such as alcohols) to a space in a radiation system of the lithographic projection apparatus, which space contains a mirror (FIG. 2, column 3, lines 50-53: Element 210 is a Si surface of a Mo/Si multilayer mirror).

Referring to claim 16: wherein the alcohol is ethanol (FIG. 4).

Allowable Subject Matter

2. Claims 1-13 and 17 are allowed and claim 15 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Referring to claims 1, 10: The primary reasons for the indication of the allowability of the claims is the inclusions therein, in combination as currently claimed, of the limitation that al least one sensor selected from the group comprising a reflectively sensor to monitor a reflectivity of said mirror and a pressure sensor to monitor a background pressure in said space and a gas supply control, responsive to a signal from said at least one sensor to control said gas supply is neither disclosed nor taught by the cited prior art of record, alone or in combination.

Claims 2-9, 11-13, 17 are allowed because they depend directly/indirectly on claim 1 or 10.

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Art Unit: 2853

Referring to claim 15: The primary reasons for the indication of the allowability of the claim is the inclusions therein, in combination as currently claimed, of the limitation that wherein the gaseous alcohol is supplied to said space at a pressure sufficient to achieve a thickness of said cap layer which does not increase substantially over time is neither disclosed nor taught by the cited prior art of record, alone or in combination.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM S NGUYEN whose telephone number is (571)272-2151. The examiner can normally be reached on 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, STEPHEN D MEIER can be reached on (571)272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN

February 1, 2005

HAI PHAM
PRIMARY EXAMINER

Harchithan